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Herbicide Guide

1978

FOR COMMERCIAL VEGETABLE GROWERS

WEED GROWTH reduces the income of vegetable growers in the United States by millions of dollars annually as a result of lower yields, poorer quality, and added labor in harvesting and processing.

This guide should be used together with the grower's knowledge of soil types and the crop and weed history of the area to be treated. Whether to use herbicides or other means of weed control depends in part on the severity of past weed infestations. In many instances mechanical control is sufficient, or it may be needed in addition to herbicide use. Several herbicides may be suggested for some crops. These herbicides have shown good control with no injury to the vegetables under test conditions. Not all herbicides cleared for use on a species are necessarily listed. Where the choice of more than one herbicide is suggested, the decision rests with the grower and is based on his knowledge of past weed infestations, crop rotations, and material costs. Where one herbicide will not control the weeds present, a combination of herbicides may be suggested. When using an herbicide for the first time, use a small-scale trial.

These suggestions for chemical weed control in vegetables are based on research at the Illinois Agricultural Experiment Station, the U.S. Department of Agriculture, and other research institutions. The University of Illinois and its agents assume no responsibility for

results from the use of these herbicides, whether or not they were used in accordance with suggestions, recommendations, or directions of the manufacturer or any governmental agency.

Reading the label of the herbicide container is the most profitable time you spend in weed control. Use of the material and methods of application and use depend on registration of the herbicide by federal and state Environmental Protection Agencies (EPA). Do not use any herbicide *unless the label states that it is cleared for the use on the crop to be treated.*

Where mixtures of chemicals are applied, the user will assume the responsibility for freedom from residues if such applications are not labeled by the EPA as a mixture.

Suggestions sometimes change during the growing season, based on EPA clearances that were made after this circular was issued. This publication is printed only once each year, and is therefore subject to change without notification.

Watch for notice of changes in the EPA registration of herbicides (as released by the EPA) in the *Illinois Vegetable Farmer's Letter*. A subscription form for this newsletter is available from 116 Mumford Hall, University of Illinois, Urbana 61801.

NOTE: In the suggestions table on the following pages, the trade names of the herbicides are usually used. The list below shows trade names and their corresponding common names.

Common name	Trade name	Common name	Trade name	Common name	Trade name
alachlor	Lasso	cycloate	Ro-Neet	MCPB	(numerous ones)
atrazine	AAtrex and others	dalapon	Basfapon, Dowpon	metribuzin	Lexone, Sencor
benefin	Balan	DCPA	Dacthal	naptalam	Alanap
bensulide	Prefar	dinitramine	Cobex	nitrofen	TOK
bentazon	Basagran	dinoseb	Premerge-3, Sinox	profluralin	Tolban
butylate	Sutan+	diphenamid	Dymid, Enide	propachlor	Bexton, Ramrod
CDAA	Randox	diuron	Karmex	pyrazon	Pyramin
chloramben	Amiben, Vegiben 2E	EPTC	Eptam, Eradicane	simazine	Princep
chlorbromuron	Maloran	glyphosate	Roundup	trifluralin	Treflan
chlorpropham	Furloe	linuron	Lorox	Petroleum solvent ..	Stoddard Solvent
cyanazine	Bladex	MCPA	(numerous ones)	2,4-D (amine)	(numerous ones)

USE THESE SUGGESTIONS IN 1978 ONLY

<i>Crop</i>	<i>Treatment</i>	<i>Active ingredient per acre actually covered¹</i>	<i>Weeds controlled</i>	<i>Best time of application (based on crop stage)</i>	<i>Remarks, cautions, limitations</i>
Asparagus (seedlings)	Amiben	3 lb.	Annuals	Immediately after seeding	Irrigation or rainfall after treatment will give maximum control.
Asparagus (established plantings)	dalapon	5-10 lb.	Perennial grass	End of harvest season following disking	Apply when grass weeds are 3 to 4 inches tall. Direct spray under fern growth. Use surfactant as directed on label.
	Karmex	1-4 lb.	Annuals	In spring before spears emerge or immediately following harvest, or both	Apply after disking. Do not exceed 6 pounds per growing season. Use lighter rate on sandy soil.
	Princep	3-4 lb.	Annuals	In spring and after harvest	Apply after disking. Do not treat during last year in asparagus because of residue. With Karmex and Princep — usually weed infestation will be reduced and spring application may be sufficient after the first year.
Beans, lima and dry	Amiben	2-3 lb.	Broad spectrum of annual weeds	Immediately after seeding	Field may be rotary-hoed without destroying herbicide action.
	Treflan	0.5-0.75 lb.	Annuals ² (primarily grasses)	Preplant soil application, incor- porate with soil immediately	Plant crop immediately, or within 3 weeks after application. Can be used up to 1 pound on dry beans.
Beans, snap	Eptam	3 lb.	Annual grasses and nutgrass ³	Preplant soil application, incor- porate with soil immediately	Plant crop immediately or within 3 weeks after application.
	Treflan	0.5-0.75 lb.	Annuals ² (primarily grasses)	Preplant soil application, incor- porate with soil immediately	
	Dacthal	6-10 lb.	Annuals ⁴ (primarily grasses)	Immediately after seeding	Do not feed treated plant parts to livestock.
	Vegiben 2E (2E only)	1.5-3 lb.	Broad spectrum of annual weeds	Immediately after seeding	This ester form of chloramben may leach less readily in sandy soils. Use on other than sandy soils.
Beans, dry	Cobex	0.3-0.6 lb.	Annuals	Preplant soil incorporation	
Beans, dry, lima, and snap	Tolban	0.5-1 lb.	Primarily annual grasses	Preplant soil incorporation	
	Premerge-3	6-7.5 lb.	Annuals	Can be used between planting and crop emergence	Do not use on light, sandy soil. Some stand reduction may result from use. See label for precautions.
Beets, garden	Pyramin	4 lb.	Annuals (primarily broadleaved)	Preemergence or after beets emerge and before weeds have two true leaves	Rainfall or irrigation needed to activate. Where grasses are a severe problem, use 4 pounds of Pyramin plus 4 pounds of Ro-Neet.
	Ro-Neet	4 lb.	Annual grasses	Preplant soil application, incor- porate with soil immediately	Use a combination treatment with Pyramin to broaden control spectrum.
Broccoli Brussels sprouts Cabbage Cauliflower	Preemergence — direct-seeded				
	Treflan	0.5-0.75 lb.	Annuals ² (primarily grasses)	Preplant soil application, incor- porate with soil immediately	Stunting or growth reduction may occur at recommended rates under growth stress conditions.
	Dacthal	6-10 lb.	Annuals ⁴ (primarily grasses)	Immediately after seeding. Can also be incorporated preplant	Can also be used preemergence on transplants.
	Preemergence — transplanted				
	Treflan	0.5-1 lb.	Annuals ² (primarily grasses)	Preplant soil application, incor- porate with soil immediately	Transplant after application to 3 weeks later.
	Postemergence — direct-seeded or transplanted				
	TOK ⁵	3-6 lb.	Broadleaved weeds ⁶	One to two weeks after crop emergence or transplanting, while weeds are in seedling stage	Use wettable-powder formulation to reduce injury poten- tial. Use in combination with preplant or preemergence material for annual grass control.
Carrots	Preemergence				
	Treflan	0.5-1 lb.	Annuals ² (primarily grasses)	Preplant soil application, incor- porate with soil immediately	Seed after application to 3 weeks later.
	Postemergence				
	Lorox	0.75-1.5 lb.	Annuals	Postemergence on carrots only after the crop is 3 inches tall; grasses, less than 2 inches; broadleaves, less than 6 inches	Do not feed treated foliage to livestock or replant treated area for 4 months. More than one application may be made, but do not exceed a total of 2 pounds per acre. Do not use over 40 PSI. Use no surfactants when temperatures exceed 80°F., or crop injury may result.
	TOK	3-6 lb.	Broadleaved weeds ⁶	While weeds are in the seedling stage	Can also be used on celery and parsley. Use in combination with preplant or preemergence material for annual grass control.
	Stoddard Solvent	60-80 gal.	Annuals	After two true leaves have appeared (do not apply to carrots or parsnips after they are 1/4 inch in diameter, since an oily taste may result)	Most effective when sprayed on cloudy days or during high humidity, and when weeds are not more than 2 inches high. May not control ragweed. Do not apply within 40 days of harvest. Can also be used on celery, dill, parsnips, and parsley.

(See footnotes on page 3.)

<i>Crop</i>	<i>Treatment</i>	<i>Active ingredient per acre actually covered¹</i>	<i>Weeds controlled</i>	<i>Best time of application (based on crop stage)</i>	<i>Remarks, cautions, limitations</i>
Corn, pop	Preemergence				
	atrazine	2-3 lb.	(See sweet corn)	(See sweet corn)	See sweet corn, <i>except the section on combinations</i> . Plant only crops so specified on the label the following year. Do not graze treated areas.
	Princep	2-3 lb.	Annuals	Preemergence	
	Postemergence				
	2,4-D	0.5 lb.	Broadleaved weeds	Postemergence	Apply when corn is 3 to 10 inches tall.
Corn, sweet	Roundup	2-3 lb.	(See remarks)	(See remarks)	Use for quackgrass or Johnsongrass control. Apply to quackgrass when 6 to 8 inches tall in fall or spring. Apply to Johnsongrass when at least 12 inches tall and actively growing. Do not till until 3 to 7 days after application.
	Preemergence				
	atrazine	2-3 lb.	Annuals, annual and perennial grasses ⁷	Preemergence, apply no later than 3 weeks after seeding Shallow cultivation may improve weed control during dry weather	Grow corn a second year without atrazine treatment. This chemical has a high soil residue. Do not plant other vegetable crops on a sprayed area until a second year of corn has been grown. Use atrazine where quackgrass is a problem. Residue hazard decreased when banded or in combination with Lasso, propachlor, or Sutan.
	Bladex	(See remarks)	Annuals	Preemergence only	Some sweet corn varieties are sensitive to the application rate. Has been shown to have less soil residual than atrazine. See label for rates and precautions. Do not use postemergence, or on sandy or loamy-sandy soils. Can be combined with other herbicides to reduce the rate being used.
	Lasso	2-2.5 lb.	Annuals	Preemergence	Preplant incorporation may aid control of nutgrass. Do not apply in nitrogen solutions.
	propachlor	4-5 lb.	Annuals	Preemergence	Do <i>not</i> use on sandy soils. Is an excellent herbicide on soils with a high organic-matter content.
	Sutan +	3-4 lb.	Primarily annual grasses	Preplant soil application Incorporate with soil	Use on sandy soil and where nutgrass is a problem.
	Eradicane	4 lb.	Difficult to control weeds such as wild cane, nutsedge, quackgrass, and seedling Johnsongrass	Preplant soil application, incorporate with soil	Use to control weeds that are difficult to control with other herbicides, such as wild cane, nutsedge, quackgrass, and seedling Johnsongrass.
	Preemergence combinations				
	atrazine	1.5 lb.	Annuals and perennial grasses	Preemergence or preplant incorporated	See label for slightly higher rate of Lasso for preplant incorporation.
	plus Lasso	+2 lb.		Preemergence	Use to reduce atrazine residue.
	atrazine	1.5 lb.	Annuals and perennial grasses	Preplant soil incorporation Incorporate with soil immediately	Use where nutgrass is a problem and to reduce atrazine residue.
	plus propachlor	+3 lb.			
	atrazine	1 lb.	Annuals and perennial grasses		
	plus Sutan +	+3-4 lb.			
	Postemergence				
	2,4-D (amine)	0.5 lb.	Broadleaved weeds	Postemergence	Preferably, apply before corn is 6 inches tall. If corn is over 12 inches, reduce the rate to ¼ pound.
	atrazine	2 lb.	Annuals, annual and perennial grasses ⁷	Directed spray 3 weeks after emergence	Can be combined with crop oils for postemergence application as an emergency measure. This may increase residue the following year. Preemergence use preferred. Do not graze or feed treated foliage for 21 days after treatment.
	Basagran	0.75-1 lb.	Broadleaved annual weeds, Canada thistle, and nutsedge. Will not control grass weeds	Early postemergence when the weeds are small and actively growing. Delay will result in less control	TRIAL USE IN 1978. For Canada thistle and nutsedge, split applications are preferred. Make first one when the plants are 6 to 8 inches tall; for nutsedge, 7 to 10 days later; for Canada thistle, 10 to 14 days later.
	Perennial grass control, applications outside the growing season				
	Roundup	2-3 lb.	(See remarks)	(See remarks)	Use for quackgrass or Johnsongrass control. Apply to quackgrass when 6 to 8 inches tall in fall or spring. Apply to Johnsongrass when at least 12 inches tall and actively growing. Do not till until 3 to 7 days after application. Does not provide residual weed control. Do not mix, store, or apply Roundup spray solutions in galvanized steel or unlined steel containers (except stainless steel) or spray tanks.

¹ Based on active ingredients (actual amount of active herbicide in material or acid equivalent). Use lower rate on sandy soil and higher rate on clay and loam soils. When using a band application over the row, adjust amount of material applied to the part of an acre treated. See Illinois Circular 1047. ² May not control ragweed and panicum. ³ May not control smartweed. ⁴ May not control ragweed, smartweed, and velvetleaf. ⁵ Use of 50% wettable powder is suggested for cabbage and horseradish. ⁶ May not control ragweed or chickweed. Grass control is sometimes marginal. ⁷ May not control crabgrass. ⁸ Do not use Alanap Plus, Solo, Whistle, or Amoco Soybean herbicide. These materials all contain Alanap plus another ingredient that may cause injury. ⁹ May not control smartweed and velvetleaf.

<i>Crop</i>	<i>Treatment</i>	<i>Active ingredient per acre actually covered¹</i>	<i>Weeds controlled</i>	<i>Best time of application (based on crop stage)</i>	<i>Remarks, cautions, limitations</i>
Cucumbers Muskmelons Watermelons	Alanap ⁸	3-5 lb.	Annuals ³	Immediately after seeding or transplanting	Do not use on cold soil. Rainfall or irrigation after treatment gives maximum control.
		3-3.5 lb.		After transplanting or vining	Use granular form. Keep away from foliage. Apply to soil after the weeds have been removed.
	Prefar	4-6 lb.	Annuals (primarily grasses)	Preplant soil application, incorporate with soil immediately	Is primarily a grasskiller. Consult label for sensitive crops within 18 months after application. Prefar can be used in rotation with tomatoes, broccoli, cauliflower, lettuce, carrots, onions, and summer squash within 18 months of application.
	Prefar plus Alanap ⁸	4 lb. +2-3 lb.	Grasses and broadleaved weeds	Preplant soil incorporation for Prefar; Alanap, as an immediate postseeding application	Has value for broad-spectrum weed control. Consult label for sensitive crops within 18 months after Prefar application. Has EPA approval as a tank mixture.
	Vegiben 2E (2E form only)	1.5-3 lb.	Broad spectrum of annual weeds	Immediately after seeding	This ester form of chloramben may leach less readily in sandy soils. Above 1.5 to 2 pounds per acre, injury chances increase under moist soil conditions. Some muskmelon cultivars may be susceptible to Vegiben injury.
As an alternative to herbicides where earliness is desired, black polyethylene mulch will control annual weeds, conserve moisture, and increase early spring soil temperatures.					
Eggplant	Dacthal	6-10 lb.	Annuals ⁴ (primarily grasses)	After plants are established, 4-6 weeks after transplanting	Cultivate and weed prior to application. Can be applied to plants as part of a uniform soil application.
Greens	Dacthal	6-10 lb.	Annuals ⁴ (primarily grasses)	Immediately after seeding	For use on collards, kale, mustard greens, and turnips.
	Treflan	0.5-0.75 lb.	Annuals ² (primarily grasses)	Preplant soil application. Incorporate with soil immediately	For use on collards, kale, mustard greens, and turnip greens.
	Furloe	1-2 lb.	Primarily broad-leaved annuals	Preemergence	For spinach only. Use lower rates in cool, wet weather.
Horseradish	Dacthal	6-10 lb.	Annuals ⁴ (primarily grasses)	Immediately after transplanting	Use for annual grass control and combine with TOK as an early postemergence treatment for broadleaved weeds.
	TOK ⁵	3-6 lb.	Broadleaved weeds ⁶	Before weeds are 1 inch tall	Will not consistently control weeds over 1 inch tall. Some emerging annual grass may be controlled by this treatment. Lower rate will control seedling purslane.
Lettuce	Balan	1.5 lb.	Annuals	Preplant soil incorporation Incorporate with soil immediately	Is primarily a grasskiller. Seed after application to 3 weeks later. Do not plant wheat, barley, rye, grass, onions, oats, beets, or spinach for 12 months after application.
Onions	Preemergence Dacthal	6-10 lb.	Annuals ⁴ (primarily grasses)	Immediately after seeding or transplanting	May not kill smartweed or common ragweed. Can be used on seeds, sets, or seedlings. Use only on mineral soils. Use lower rates on sandy soils. A double application of Dacthal can be used at seeding, layby, or both. In most situations, the weed spectrum on mineral soils will respond well to a combination of Dacthal preemergence and TOK postemergence.
	Randox	4-6 lb.	Annuals ⁹ (primarily grasses)	Just before onions emerge	Use on muck soils. Heavy rainfall may reduce stand. Very effective on purslane and pigweed.
	Postemergence TOK	3-4 lb.	Broadleaved weeds	When weeds are in seedling stage and not over 1 inch tall	Use a single application of E.C. or W.P. per growing season. Do not apply E.C. until onions are in the two- to three-leaf stage. Preemergence use of TOK with heavy rainfall may reduce stand. Use in combination with preplant or preemergence material for annual grass control.
	Furloe	3-6 lb.	Broadleaved weeds (especially smartweed)	On seeded onions: loop stage or after three- to four-leaf stage	In the later sprays, direct at base of onion plant. If more than one application is applied do not exceed 6 pounds per acre for the season. Use lower rates in cool, wet weather. Use no later than 30 days before harvest.
Peas	propachlor	4-4.9 lb.	Annuals	Preemergence	Do not use on sandy soil.
	Treflan	0.5-0.75 lb.	Annuals ²	Preplant soil incorporation Incorporate with soil immediately	Seed after application to 3 weeks later. Some reduction of growth and stand reduction possible under stress.
	Cobex	0.3-0.5 lb.	Annuals	Preplant soil incorporation	May delay maturity 1 to 4 days. Use at least 20 gallons of water per acre. Do not feed vines to livestock. MCPA is more effective on mustard. MCPB is less injurious to peas.
	MCPB	1 lb.	Broadleaved weeds and	When peas are 3-7 inches tall and no later than four nodes prior to pea blossom	
	MCPA	0.25-0.5 lb.	Canada thistle		
	Premerge-3	0.3-9 lb.	Annuals (primarily broad-leaved weeds)	Preemergence or postemergence	Preemergence use 6 to 9 pounds; postemergence, use 0.3 pound to 1.1 pounds. Apply prior to bloom when peas are 2 to 8 inches tall. See label for further precautions.

(See footnotes on page 3.)

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<i>Crop</i>	<i>Treatment</i>	<i>Active ingredient per acre actually covered¹</i>	<i>Weeds controlled</i>	<i>Best time of application (based on crop stage)</i>	<i>Remarks, cautions, limitations</i>
Potatoes, Irish	Eptam	3-6 lb.	Annual grasses and nutgrass ³	Drag-off treatment at emergence or preplant soil application Incorporate with soil immediately	Use lower rate on sandy soil.
	Treflan	0.5-1 lb.	Annuals ² (primarily grasses)	Drag-off treatment at emergence	Use a light incorporation.
	Lorox	0.75-2 lb.	Annuals	Apply prior to potato emergence	Plant tubers at least 2 inches deep. Do not replant treated area to other crops for 4 months after treatment. May in- jure crop on light, sandy soil. Do not apply over exposed tubers.
	chlorbromuron	2-3 lb.	Annuals	At very start of potato emergence	May injure crop on light, sandy soil. Do not harvest im- mature potatoes. Do not plant crops other than field corn, potatoes, or soybeans for 6 months after applying.
	dalapon	7 lb.	Quackgrass	Before plowing in spring; wait 4 days before plowing and planting	Not for fields intended for red-skinned varieties or White Rose. Do not plant potatoes for 4 weeks. Use surfactant as directed on label.
	metribuzin	0.25-0.5 lb.	Annuals (primarily broadleaved)	Postemergence, following a preemergence grass herbicide	Can be used preemergence also. Do not exceed 1 pound per acre in a season. Do not apply within 60 days of harvest. Do not use on red-skinned or early maturing white va- rieties. Do not apply in cool, wet weather.
	Lasso	2.5-3 lb.	Annuals	Apply at drag-off	Do not use on sandy soils. Can be used alone or in combina- tion with Lorox or dinoseb.
Potatoes, sweet	Dacthal	6-10 lb.	Annuals ⁴ (primarily grasses)	Immediately after planting	May not control smartweed or common ragweed. Preferred on sandy soil.
	Amiben	3 lb.	Annuals	Immediately after planting	Preferred on loam soils.
Spinach	Furloe	1-2 lb.	Annuals	Immediately after seeding	Use 1 pound if the temperature is below 60°F.
Squash Pumpkins	Amiben	3-4 lb.	Annuals	As soon after seeding as possible	Use on loam soils. In Illinois, Amiben can be applied broad- cast or banded over the row in pumpkins.
Squash	Prefar	4-6 lb.	Annuals (primarily grasses)	Preplant soil application Incorporate with soil immediately	Is primarily a grasskiller. Consult label for sensitive crops within 18 months after application. Prefar can be used in rotation only with tomatoes, broccoli, cauliflower, lettuce, carrots, onions, and summer squash within 18 months of application. Use in combination with Alanap as suggested for cucumbers.
Tomatoes, direct-seeded	Dymid, Enide	4-6 lb.	Annuals	Preemergence	Do not plant other food crops on treated areas for 6 months. If used under dry soil conditions, a shallow (1 inch) in- corporation as a preplant treatment may improve weed control. Can also be used on transplanted tomatoes and peppers.
Tomatoes and Peppers, transplanted	Amiben	3-4 lb.	Annuals	Wait 3 days after transplanting to apply	Use granular formulation only. Apply to dry foliage in order to avoid leaf burn. Do not use on sandy soils.
	Treflan	0.5-1 lb.	Annuals ² (primarily grasses)	Preplant soil application Incorporate with soil immediately	Some reduction of growth may be possible under growth stress conditions, or if rates are higher than suggested for the soil type.

(See footnotes on page 3.)

Storage of Pesticides and Containers

Keep pesticides and containers in a separate building, room, or enclosure used only for this purpose. Such buildings or rooms should be dry, ventilated, and locked. Fence outside storage areas to protect children and animals and to discourage pilferage. CAUTION: Do not store weedkillers, herbicides, or defoliants in the same room with insecticides. Chlorate salts can create a fire or explosion hazard. Remove only the pesticides needed for one day's operation and return empty containers — and any unused pesticide — to the storage area each day.

Disposing of Pesticides and Containers

Surplus Pesticides. To dispose of surplus pesticide mixtures, try to find other areas with the same pest problem and use up any extra tank mix or rinse water on these areas. Do not drain surplus pesticides in any location where they can contaminate wells, streams, rivers, lakes, or ponds.

Operators of landfills meeting environmental safety standards can obtain supplemental permits to handle toxic waste materials, including pesticides. To dispose of large quantities of surplus pesticides, contact the Illinois EPA Division of Land Pollution Control to locate the nearest landfill with a supplemental permit for toxic waste or to obtain specific instructions about disposal.

Pesticide Containers. All empty pesticide containers, regardless of their type, should be rinsed three times before disposal. Rinse water should be dumped in the tank. Triple-rinsed containers should be punctured or broken to facilitate drainage and to prevent reuse for any purpose. They should then be hauled to a sanitary landfill for disposal. Small quantities of containers may be buried singly in open fields, with due regard for the protection of surface and subsurface water.

Illinois regulations permit the burning of combustible containers provided that they are burned on the premises where they were used, that they are burned more than 1,000 feet from residential areas, that the burning will not cause undue visibility or environmental hazards, and that no reasonable alternate disposal method is available.

Do not breathe smoke from burning pesticide containers, and do not burn containers that have weedkillers such as 2,4-D or similar herbicides. When these change to a gas, the vapors may damage nearby crops and shrubbery. Pesticides containing chlorates may explode when heated and, therefore, should not be burned.

OTHER PUBLICATIONS ON WEED CONTROL

Obtain the following publications on weed control from the office of your county Extension adviser (agriculture) or by writing to the Office of Agricultural Publications, 123 Mumford Hall, Urbana, Illinois 61801.

Prevent 2,4-D Injury to Crops and Ornamental Plants — Circular 808

Legal Aspects of Crop Spraying — Circular 990

Calibrating and Adjusting Granular Row Applicators — Circular 1008

Calibrating and Maintaining Spray Equipment — Circular 1038

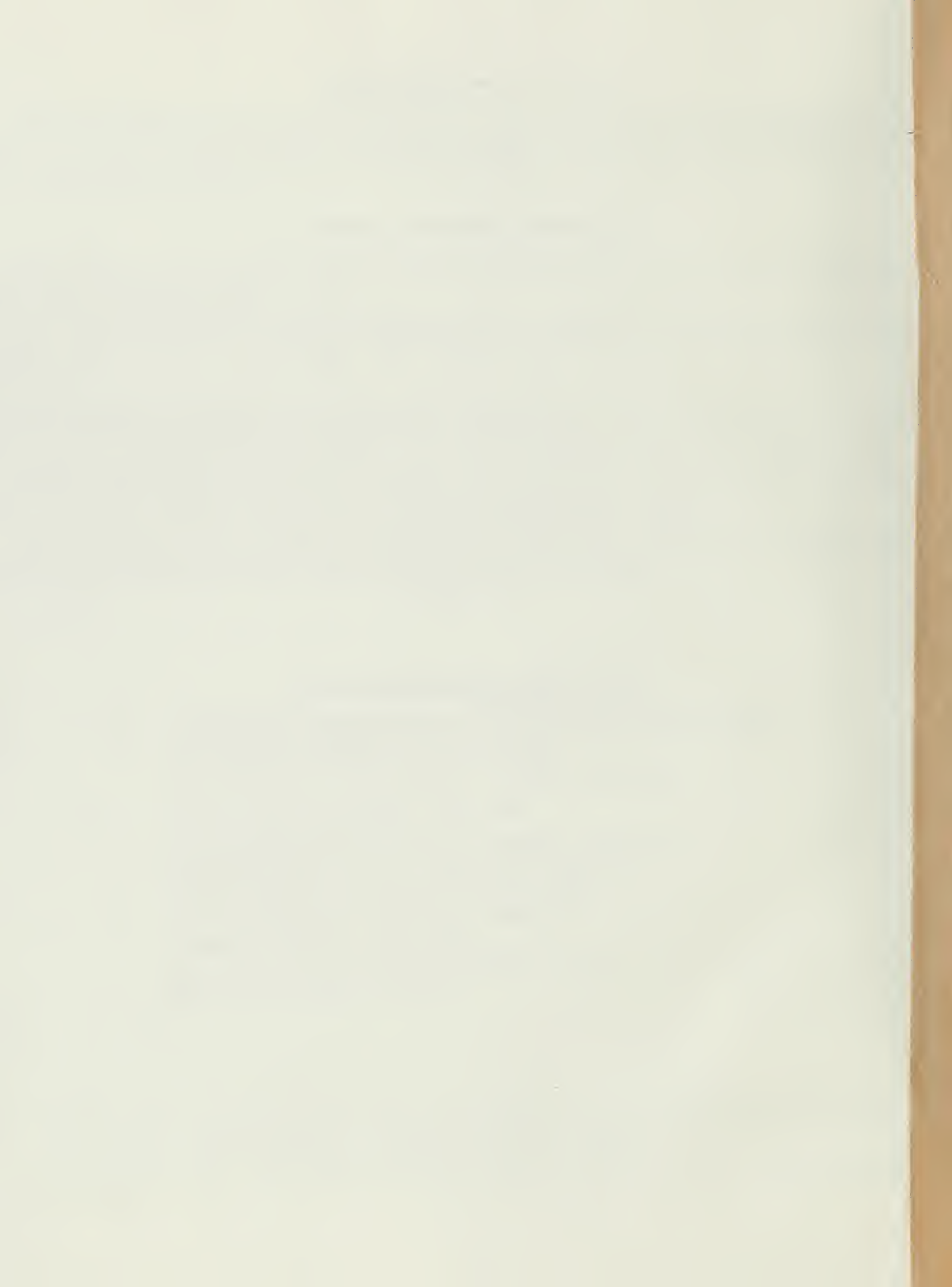
Band Spraying Preemergence Herbicides — Circular 1047

Controlling Weeds in the Home Garden — Circular 1051

Turfgrass Pest Control — Circular 1076

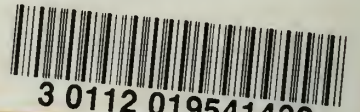
Herbicides for Commercial Fruit Crops in Illinois — H-659

1978 Field Crops Weed Control Guide





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